

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 10/04/01  
Date Received: 10/01/01  
Project: Water Test PO# M66807  
Date Extracted: 10/01/01  
Date Analyzed: 10/01/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M66807 110007-01	0.11	1.7	0.54	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/01

Date Received: 10/01/01

Project: Water Test PO# M66807

### QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 109115-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.52	0.52	0	0-20
Copper	mg/L (ppm)	0.46	0.47	2	0-20
Nickel	mg/L (ppm)	0.50	0.49	2	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 109115-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	0.52	93	92	80-120	1
Copper	mg/L (ppm)	2	0.46	90	90	80-120	0
Nickel	mg/L (ppm)	4	0.50	94	93	80-120	1
Zinc	mg/L (ppm)	2	<0.05	100	101	80-120	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	100	98	80-120	2
Copper	mg/L (ppm)	2	101	100	80-120	1
Nickel	mg/L (ppm)	4	103	103	80-120	0
Zinc	mg/L (ppm)	2	103	102	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

110007

## SAMPLE CHAIN OF CUSTODY

ME

10/1/01

AI

Send Report To

Gerald A. Thompson

Company

Alaskan Copper works

Address

621 S. Anderson St

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8579

Fax #

206-382-8309

SAMPLERS (signature)



PROJECT NAME/NO.

WATER test

PO #

m66807

REMARKS

Rush!! Phone Results

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	cy	cy	cy	cy	
m66807	01	10/1/01	1:00	A20	1											

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

GERALD A. Thompson

ERIC YOUNG

COMPANY

Ach

FBENC.

DATE

10/1/01

L

TIME

1:26 PM

1:45 PM

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

October 4, 2001

**DUPLICATE COPY**

**INVOICE #01ACU1004-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Water Test PO# M66807 - Results of testing requested by Gerry  
Thompson for material submitted on October 1, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due .....	\$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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e-mail: fbi@isomedia.com

October 4, 2001

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

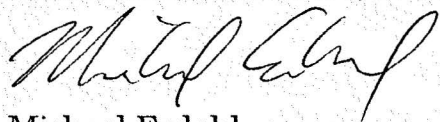
Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 1, 2001 from your Water Test PO# M66807 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU1004R.DOC